

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of:	)		
Steven R. HETZLER et al.	)	Group Art Unit:	TBA
Serial No.: TBA	)	Examiner:	TBA
Filed: July 14, 2003	)		
For: AUTONOMIC PARITY EXCHANGE	)	Atty Dkt No.	ARC920030015US1

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. § 1.97(b), Applicants submit herewith a Form PTO-1449 listing patents and publications for consideration in connection with the above-identified application. A copy of each patent and publication is provided herewith.

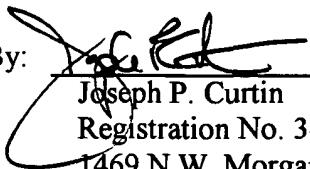
Applicants respectfully request that the Examiner consider and enter these documents into the file of the above-identified application. If any additional fee is deemed necessary, the Commissioner is authorized to charge Deposit Account No. 09-0441.

Applicants also wish to draw the Examiner's attention to the following related Patent Applications that are each co-pending, co-assigned and filed concurrently herewith: Patent Application Serial No. (Attorney Docket No. ARC9-2003-0014-US1), entitled "Anamorphic Codes", Patent Application Serial No. (Attorney Docket No. ARC9-2003-0016-US1), entitled "Multi-path Data Retrieval From Redundant Array," and Patent Application Serial No. (Attorney Docket No. ARC9-2003-0040-US1), entitled "RAID 3 + 3". Additionally, Applicants wish to bring the Examiner's attention to related co-pending Patent Application Serial No. (Attorney Docket No. YOR9-2003-0069-US1).

A general authorization under 37 C.F.R. § 1.25(b), second sentence, is hereby given to credit or debit Deposit Account No. 09-0441 for the instant filing and for any other fees during the pendency of this application under 37 C.F.R. §§ 1.16, 1.17 and 1.18.

Respectfully submitted,

Dated: July 14, 2003

By: 

Joseph P. Curtin

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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Application Number	TBA
Filing Date	July 14, 2003
First Named Inventor	Steven R. HETZLER
Art Unit	TBA
Examiner Name	TBA

Attorney Docket Number **ARC9-2003-0015-US1**

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
1	US- 5,134,619	07-28-1992	Henson et al.		
2	US- 5,148,432	09-15-1992	Gordon et al.		
3	US- 5,257,391	10-26-1993	DuLac et al.		
4	US- 5,301,297	04-05-1994	Menon et al.		
5	US- 5,398,253	03-14-1995	Gordon		
6	US- 5,506,977	04-09-1996	Jones		
7	US- 5,579,475	11-26-1996	Blaum et al.		
8	US- 5,835,938	11-10-1998	Yamamoto et al.		
9	US- 5,848,229	12-08-1998	Morita		
10	US- 5,937,428	08-10-1999	Jantz		
11	US- 6,070,249	05-30-2000	Lee		
12	US- 6,138,125	10-24-2000	DeMoss		
13	US- 6,154,853	11-28-2000	Kedem		
14	US- 6,161,165	12-12-2000	Solomon et al.		
15	US- 6,269,453 B1	07-31-2001	Krantz		
16	US- 6,275,898 B1	08-14-2001	DeKoning		
17	US- 6,279,138 B1	08-21-2001	Jadav et al.		
18	US- 6,353,895 B1	03-05-2002	Stephenson		
19	US- 6,530,004 B1	03-04-2003	King et al.		

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
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Application Number: TPA

Application Number	TBA
Filing Date	July 14, 2003
First Named Inventor	Steven R. HETZLER
Art Unit	TBA
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Sheet	3	of	4	Attorney Docket Number	ARC9-2003-0015-US1

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	21	G.A. ALVAREZ et al., Tolerating Multiple Failures in RAID Architectures with Optimal Storage and Uniform Declustering, Computer Architecture News (USA), V. 25, #2, pp. 62-72, May 1972.			
	22	V. BOHOSSIAN et al., Computing in the RAIN: A Reliable Array of Independent Nodes, pp. 1-20, September 24, 1999.			
	23	P.M. CHEN et al., RAID: High-Performance, Reliable Secondary Storage, ACM Computing Surveys, Vol. 26, No. 2, pp. 146-185, June 1994.			
	24	M. HOLLAND et al., Parity Declustering for Continuous Operation in Redundant Disk Arrays, ACM 0-89791-535-6/92/0010/0023, pp. 23-35, October 1992.			
	25	N.K. OUCHI, Two-Level DASD Failure Recovery Method, IBM Technical Disclosure Bulletin, Vol. 36, No. 03, pp. 187-190, March 1993.			
	26	D.A. Patterson et al., A Case for Redundant Arrays of Inexpensive Disks (RAID), ACM 0-89791-268-3/88/0006/0109 1998.			
	27	J.S. PLANK, A Tutorial on Reed-Solomon Coding for Fault-Tolerance in RAID-like Systems, pp. 1-19, February 19, 1999.			
	28	E.J. SCHWABE et al., Evaluating Approximately Balanced Parity-Declustered Data Layouts for Disk Arrays, ACM 0-89791-813-4/96/05, pp. 41-54, 1996.			
	29	E.J. SCHWABE et al., Flexible Usage of Parity Storage Space in Disk Arrays, ACM 0-89791-809-6/96/06, pp. 99-108, 1996.			
	30	L. Xu et al., X-Code: MDS Array Codes with Optimal Encoding, IEEE Trans. On Information Theory, Vol. 45, No. 1, pp. 272-276, January 1999.			

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	TBA
Sheet	4	of	4	Filing Date	July 14, 2003
				First Named Inventor	Steven R. HETZLER
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<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	31	M. Blaum et al., "MDS Array Codes with Independent Parity Symbols," IEEE Trans. on Information Theory, Vol. IT-42, pp. 529-542, March 1996.		
	32	M. Blaum et al., "The EVENODD Code and its Generalization," High Performance Mass Storage and Parallel I/O: Technologies and Applications, edited by H. Jin et al., IEEE & Wiley Press, New York, Chapter 14, pp. 187-208, 2001.		
	33	M. Blaum et al., "EVENODD: An Efficient Scheme For Tolerating Double Disk Failures In A RAID Architecture," IEEE Trans. on Computers, Vol. 44, No. 2, pp. 192-202, Feb. 1995.		

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